

**DEPARTMENT OF ENVIRONMENTAL PROTECTION
PERMIT BY RULE NOTIFICATION FORM**

(For use with DEP Regulation, Chapter 305)

PLEASE TYPE OR PRINT IN **BLACK INK ONLY**

Name of Applicant: (owner)	Canton Mountain Wind, LLC	Name of Agent:	Tetra Tech EC, Inc. Kathleen R. Miller		
Applicant Mailing Address:	549 South Street	Agent Phone # (include area code):	(207) 409-9738 Kathleen.miller@tetrattech.com		
Town/City:	Quincy	PROJECT Information Name of Town/City:	Canton, Maine		
State and Zip code:	MA, 02169	Name of Wetland or Waterbody:	Ludden Brook and unnamed streams and vernal pools		
Daytime Phone # (include area code):	(617) 890-0600	Map #: R-10 R-8	Lot #:16,17 8, 10		
Detailed Directions to Site:	From Augusta take Western Ave, to Route 17 west; follow Route 17 west approximately 22 miles to Livermore Falls; take right on Park St. for 0.8 miles; turn left on Depot Street 0.2 miles; turn right onto Route 17 west for 2.7 miles; then take left onto Route 140/Intervale Road for 6.7 miles; look for Canton Point Road on the right; approximatley 0.5 miles on right look for Ludden Lane. This will be the entrance to the Project.				
	UTM Northing: (if known)	396398	UTM Easting: (if known)	4929767	
Description of Project:	The Canton Mountain Wind Project is an 8 turbine, 22 megawatt , wind energy generation project proposed in Canton and Dixfield, Maine.				
Part of a larger project? (check one) →	<input checked="" type="checkbox"/> Yes	After the Fact? (check one) →	<input type="checkbox"/> Yes	Check one → This project <input checked="" type="checkbox"/> does (or) <input type="checkbox"/> does not involve work below mean low water (average low water).	
	<input type="checkbox"/> No	<input type="checkbox"/> No	<input checked="" type="checkbox"/> No		

PERMIT BY RULE (PBR) SECTIONS: (Check at least one)

I am filing notice of my intent to carry out work which meets the requirements for Permit By Rule (PBR) under DEP Rules, Chapter 305. I and my agents, if any, **have read** and will comply with all of the standards in the Sections checked below.

- | | | |
|---|---|---|
| <input type="checkbox"/> Sec. (2) Act. Adj. to Protected Natural Res. | <input checked="" type="checkbox"/> Sec.(10) Stream Crossing | <input type="checkbox"/> Sec. (17) Transfers/Permit Extension |
| <input type="checkbox"/> Sec. (3) Intake Pipes | <input type="checkbox"/> Sec. (11) State Transportation Facil. | <input type="checkbox"/> Sec. (18) Maintenance Dredging |
| <input type="checkbox"/> Sec. (4) Replacement of Structures | <input type="checkbox"/> Sec. (12) Restoration of Natural Areas | <input checked="" type="checkbox"/> Sec. (19) Activities in/on/over significant vernal pool habitat |
| <input type="checkbox"/> Sec. (5) REPEALED | <input type="checkbox"/> Sec. (13) F&W Creation/Enhance/Water Quality Improvement | <input type="checkbox"/> Sec. (20) Activities in existing dev. areas located in/on/over high or moderate value inland waterfowl & wading bird habitat or shorebird nesting, feeding & staging areas |
| <input type="checkbox"/> Sec. (6) Movement of Rocks or Vegetation | <input type="checkbox"/> Sec. (14) REPEALED | |
| <input type="checkbox"/> Sec. (7) Outfall Pipes | <input type="checkbox"/> Sec. (15) Public Boat Ramps | |
| <input type="checkbox"/> Sec. (8) Shoreline stabilization | <input type="checkbox"/> Sec. (16) Coastal Sand Dune Projects | |
| <input type="checkbox"/> Sec. (9) Utility Crossing | | |

I have attached the following required submittals. **NOTIFICATION FORMS CANNOT BE ACCEPTED WITHOUT THE**

NECESSARY ATTACHMENTS:

- Attach** a check for \$65 made payable to: "Treasurer, State of Maine".
- Attach** a U.S.G.S. topo map or Maine Atlas & Gazetteer map with the project site clearly marked.
- Attach Proof of Legal Name.** If applicant is **not** an individual or municipality, provide a copy of Secretary of State's registration information (available at <http://icrs.informe.org/nei-sos-icrs/ICRS?MainPage=x>)
- Attach photos of the proposed site where activity will take place as outlined in PBR Sections checked above.**
- Attach** all other required submissions as outlined in the PBR Sections checked above.

I authorize staff of the Departments of Environmental Protection, Inland Fisheries & Wildlife, and Marine Resources to access the project site for the purpose of determining compliance with the rules. I also understand that **this permit is not valid until approved by the Department or 14 days after receipt by the Department, whichever is less.**

By signing this Notification Form, I represent that the project meets all applicability requirements and standards in the rule and that the applicant has sufficient title, right, or interest in the property where the activity takes place.

Signature of Agent or Applicant:		Date:	January 23, 2012
	Andy Novey, Project Manager		

Keep a copy as a record of permit. Send the form with attachments via certified mail or hand deliver to the Maine Dept. of Environmental Protection at the appropriate regional office listed below. The DEP will send a copy to the Town Office as evidence of the DEP's receipt of notification. No further authorization by DEP will be issued after receipt of notice. Permits are valid for two years. **Work carried out in violation of any standard is subject to enforcement action.**

AUGUSTA DEP 17 STATE HOUSE STATION AUGUSTA, ME 04333-0017 (207)287-3901	PORTLAND DEP 312 CANCO ROAD PORTLAND, ME 04103 (207)822-6300	BANGOR DEP 106 HOGAN ROAD BANGOR, ME 04401 (207)941-4570	PRESQUE ISLE DEP 1235 CENTRAL DRIVE PRESQUE ISLE, ME 04769 (207)764-0477
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OFFICE USE ONLY	Ck.#	Date	Staff	Staff	After Photos
PBR #	FP		Acc. Date	Def. Date	



**Canton Mountain Wind, LLC
Canton Mountain Wind Project**

**Permit by Rule Notification Form
Attachments**

- | | |
|---------------------|---|
| Attachment 1 | Description of Permit by Rule Activities |
| Attachment 2 | Resource Crossing Plans |
| Attachment 3 | Canton Mountain Wind, LLC Certificate of Good Standing |
| Attachment 4 | Stream and Significant Vernal Pool Photo Documentation |
| Attachment 5 | Stream Crossing Engineering Details |

Attachment 1

Description of Canton Permit-by-Rule Activities

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1.0 PROJECT DESCRIPTION

The Canton Mountain Wind Project (Project) is a 22-megawatt (MW) wind energy generation project located in the municipalities of Canton and Dixfield, Oxford County, Maine (see Figure 1-1). The Project is being proposed by Canton Mountain Wind, LLC (CMW) and has been developed by CMW's affiliate, Patriot Renewables, LLC (Patriot), a wind development company based in Quincy, Massachusetts. The project site is secured by lease and easement agreements with landowners.

The Project occupies 2,978 acres of land and includes the upgrading of 1.4 miles of an existing road known as Ludden Lane, the upgrading of 1.6 miles of an existing unnamed private gravel logging road that begins at the end of Ludden Lane, and construction of a 0.6-mile access road extending from the end of the existing logging road to the ridgeline (see Figure 1-1). Access along the ridgeline will be via an approximately 1.4-mile ridgeline road that will connect the wind turbine tower foundations. Along the ridgeline road, eight wind turbines and associated electrical collection infrastructure will be installed.

Power from the turbines will be collected in a 34.5-kilovolt (kV) underground electric collector line system buried within the ridgeline road work limits. The underground collector line will transition to an aboveground transmission line on the access road approximately 0.6 miles down from the new ridgeline access road. From there it will continue aboveground, mounted on wood poles, for approximately 1.6 miles roadside along the upgraded logging road until it reaches the transmission line corridor for the Saddleback Ridge Wind Project (Maine Department of Environmental Protection [Maine DEP] license L-25137-24-A-N/L-25137-TG-B-N). Poles will be placed within the existing transmission corridor and travel 1.1 miles to the Ludden Lane Substation. For approximately 1,410 feet of this corridor, lines from both projects will occupy one set of poles; there will be two sets of poles in the rest of the corridor. Placing the transmission line within the existing Saddleback Ridge Wind corridor will result in no additional right-of-way clearing or permanent wetland impacts. The Project will interconnect with the regional grid at the Ludden Lane Substation built for the Saddleback Ridge Wind Project.

The Project also includes an approximately 3,500-square-foot operations and maintenance (O&M) building located along Ludden Lane on a parcel of land that will be leased from CMW's affiliate Saddleback Ridge Wind Farm, LLC. The O&M building is designed to accommodate up to six employees and will include an approximately 7,500-square-foot parking lot. An overhead distribution line and fiber-optic cabling mounted on wooden poles will connect the O&M building to the turbines.

The Project will consist of seven General Electric (GE) 2.75-103 and one GE 2.75-100 wind turbines with a nameplate capacity of 2.75 MW each. The GE 2.75-103 turbines will have 103-meter-diameter (approximately 338 feet) rotors mounted on 85-meter (approximately 279 feet) tubular steel towers, resulting in a total height of 136.5 meters (approximately 448 feet) from the ground to the tip of a fully extended blade. The GE 2.75-100 turbine will have a 100-meter-diameter (approximately 328 feet) rotor mounted on an 85-meter (approximately 279 feet) tubular steel tower, resulting in a total height of 135 meters (approximately 443 feet) from the ground to the tip of a fully extended blade. Figures 1-2a and 1-2b show the configuration and dimensions for both of these turbine models. As an alternative to the GE turbines described above, the Project may also use eight Gamesa G90 turbines in the same locations. The Gamesa G90 turbines have 90-meter (approximately 295 feet) rotors mounted on 78-meter (approximately 256 feet) towers (Figure 1-2c). The Gamesa turbines are shorter and have the same or

lower sound output as the GE turbines; therefore, all studies will be done using the larger GE 2.75-103 turbine in order to depict the worst-case scenario.

Current land use in the project area consists of undeveloped, privately owned forest land and commercial forestry operations in the vicinity of the proposed access road, ridgeline, and transmission line. The topography in the project area ranges from relatively flat, at the lower elevations and in the vicinity of the O&M building, to moderate and steep side slopes that climb from roughly 1,000 feet to 1,600 feet above sea level. The ridgeline between the northernmost and southernmost proposed turbines ranges in elevation from 1,324 feet to 1,538 feet above sea level.

Preliminary wetlands and waterbody field surveys, along with “in-season” (i.e., amphibian breeding season) vernal pool surveys, were performed during the spring of 2010 to facilitate the avoidance and minimization of impacts during the facility design. Wetlands and waterbody surveys, Roaring Brook mayfly surveys, and northern spring salamander surveys of the Project were conducted during the summer and fall of 2010. “In-season” vernal pool surveys and additional wetland and waterbody field surveys were also conducted in spring 2011 to address shifts in the road alignments and possible alternate access routes resulting from resource impact avoidance and minimization efforts. Additional reports and surveys include an analysis of historic architecture, Euro-American and Pre-Contact archaeology, visual impact analysis, shadow flicker analysis, sound analysis, high intensity soil surveys, and soils evaluations.

After modifying the project design to avoid and minimize impacts, the final facility design and layout for the turbines and associated roads and transmission line results in only 3,039 square feet of permanent wetland fill, 4,286 square feet of temporary alterations during construction, and 2,258 square feet of conversion of forested wetland to scrub-shrub wetland to support operations of the roadside transmission line right-of-way. Existing roads are used to the greatest extent practicable and most of the impacts associated with the Project are from the temporary expansion of Ludden Lane and an existing unnamed gravel road. There is one new crossing of a stream regulated by the Maine DEP and the U.S. Army Corps of Engineers on the new access road to the ridgeline; this new crossing will be performed using an open bottom arch culvert built in accordance with Maine DEP’s permit-by-rule standards.

1.1 Proposed Permit-By-Rule 10 Activities

CMW proposes to perform 4 stream crossings in Canton in compliance with *Maine Department of Environmental Protection’s Natural Resources Protection Act, Permit by Rule Standards, Chapter 305, Section 10, for Crossings (bridges, culverts, and fords)*. The locations of these 4 stream crossings are shown on Figure 1-1 and detailed crossing plans are provided in Attachment 2; Attachment 3 includes CMW’s Proof of Legal Name from the Maine Secretary of State; Attachment 4 provides photographic documentation; and Attachment 5 includes engineering crossing details.

The following table provides a list of the proposed crossings to be performed in Canton using PBR 10 Standards including crossing type (new crossing, bridge or culvert replacement); the stream classification (intermittent or perennial) and the identification number for the associated engineering drawing (see Attachment 2).

Waterbody/ Project Segment	Crossing Type	Maine DEP Stream Type	Town See Figure 1-1	NRPA Drawing in Attachment 2
Access Road				
AS9	replace existing 18-inch CMP culvert with culvert/bridge	Intermittent	Canton	NRPA-05
AS48	replace existing 30-inch CMP with new 30-inch HDPE culvert	Intermittent	Canton	NRPA-18
AS58	replace existing 24-inch CMP with new 24-inch HDPE culvert	Perennial	Canton	NRPA-19
AS49	new intermittent stream crossing with culvert/bridge	Intermittent	Canton	NRPA-20

Only stream AS58 is a Maine DEP regulated perennial stream; Streams AS9, AS58, and AS49 are all MDEP regulated intermittent streams. The crossing of AS9 also involves impacts to Maine DEP regulated wetlands of special significance (see NRPA-05, Attachment 2). CMW plans to replace the existing 18-inch CMP culvert at stream AS9 (NRPA-05) with a new culvert/bridge structure (see NRPA 30, Attachment 5 for the engineering detail). The crossings of AS48 and AS58 will involve replacement of the existing corrugated metal culverts with HDPE culverts of the same size. The one new crossing (AS49) associated with the new access road to the ridgeline will be crossed with an open bottom culvert/bridge (NRPA-20, Attachment 2). CMW proposes to perform all of these stream crossings in compliance with Maine DEP Chapter 305, Permit-by-Rule 10 Standards for Crossings.

1.2 Proposed Permit-By-Rule 19 Activities

CMW also proposes to perform vegetation clearing activities and construction of a portion of the ridgeline access road within the 250-foot buffer of a potentially significant vernal pool (PSVP) in compliance with *Maine Department of Environmental Protection's Natural Resources Protection Act, Permit by Rule Standards, Chapter 305, Section 19, for Activities In, On or Over Significant Vernal Pool Habitat*.

This PSVP (shown as resource ID 9PSVP on the plan set) was treated as a SVP during the design of the Project (pool determination pending from the Maine Department of Fisheries and Wildlife). No Project related activities are proposed within 100 feet of the spring high water line and a minimum of 75 percent of the adjacent critical terrestrial habitat (CTH) will be left intact and un-fragmented following construction. The activities that will occur within the 250-foot CTH surrounding the vernal pool includes clearing of vegetation and construction of an access road (see NRPA-21, Attachment 2).

For the purpose of evaluating compliance with PBR 19 Standards, Tetra Tech conservatively assumed that all CTH habitat located east of the western tree line along the proposed ridgeline road would be unavailable to pool breeding amphibians. As shown on Plan NRPA-21, this results in conversion of approximately 24 percent of the CTH surrounding pool 9PSVP leaving 76 percent of the CTH remaining as unfragmented habitat following construction.

A second significant vernal pool (SVP) is located east of the proposed electric transmission line (see NRPA-29, Attachment 2). This SVP (resource ID 1SVP on the plan set) has already been reviewed by

the Maine DIFW and confirmed to be a significant vernal pool (SVP). CMW has again maintained a minimum 100-foot setback from the edge of this SVP and will be able to construct the transmission line that traverses within 250 feet of the spring high water line of this pool retaining approximately 78.8 percent of the CTH habitat intact following construction.

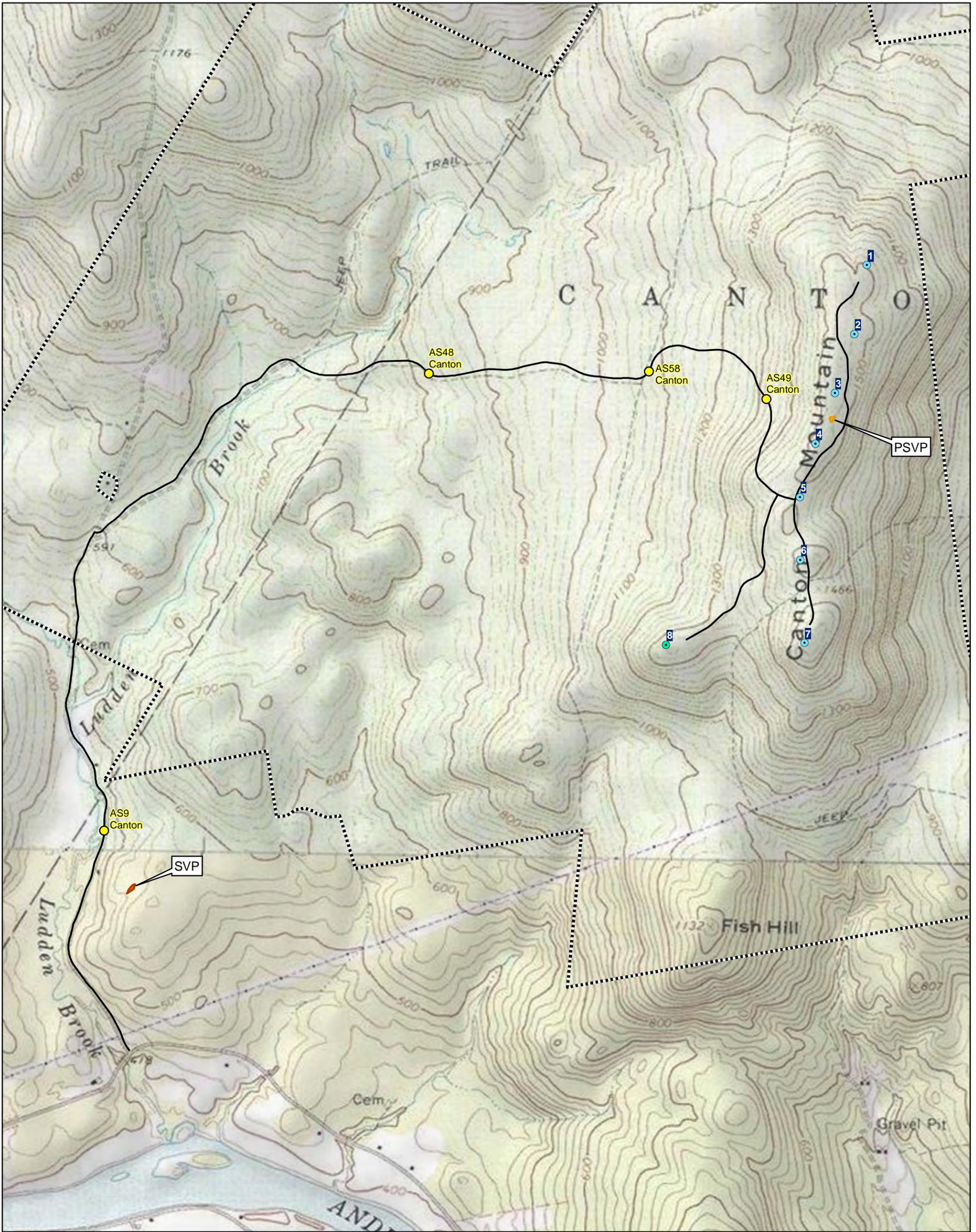
In addition, CMW will comply with the following Chapter 305 Standards to prevent erosion of soil or fill material from disturbed areas within 250 feet of the SVP:

1. Staked hay bales or silt fence will be properly installed at the edge of disturbed areas between the activity and the vernal pool depression before the vegetation removal begins for construction of the transmission line.
2. Hay bales or silt fence barriers will be maintained until the disturbed area is permanently stabilized.
3. Within seven calendar days following the completion of any soil disturbance, and prior to any storm event, mulch will be spread on exposed soils.
4. All disturbed soils will be permanently stabilized following construction.
5. Within 30 days of final stabilization of the area within 750 feet of the vernal pool depression, all silt fence will be removed.

1.3 Construction Schedule

The proposed schedule for construction of the Project is presented below.

Project Phase	Start Date	End Date
Mobilization and Geotechnical Surveys	May 2, 2013	May 13, 2013
Clearing and Grubbing	May 16, 2013	June 10, 2013
Road and Site Work	May 30, 2013	August 5, 2013
Construction of Turbine Foundations	July 18, 2013	August 26, 2013
Transmission Line	July 18, 2013	October 1, 2013
Turbine Delivery and Site Placement	August 8, 2013	September 2, 2013
Turbine Erection	August 8, 2013	October 15, 2013
Ridgeline Electric Collection System	August 15, 2013	October 5, 2013
Testing and Commissioning	October 17, 2013	November 4, 2013
Start of Commercial Operation	November 11, 2013	N/A



- Legend**
- Stream Crossing Location**
 - Canton
 - Potential Significant vernal pool (PSVP)
 - Significant vernal pool (SVP)
 - Turbine Location (10/21/2011)**
 - GE 2.75-103
 - GE 2.75-100
 - Access Road
 - - - Project Area

0 0.25 0.5 Miles

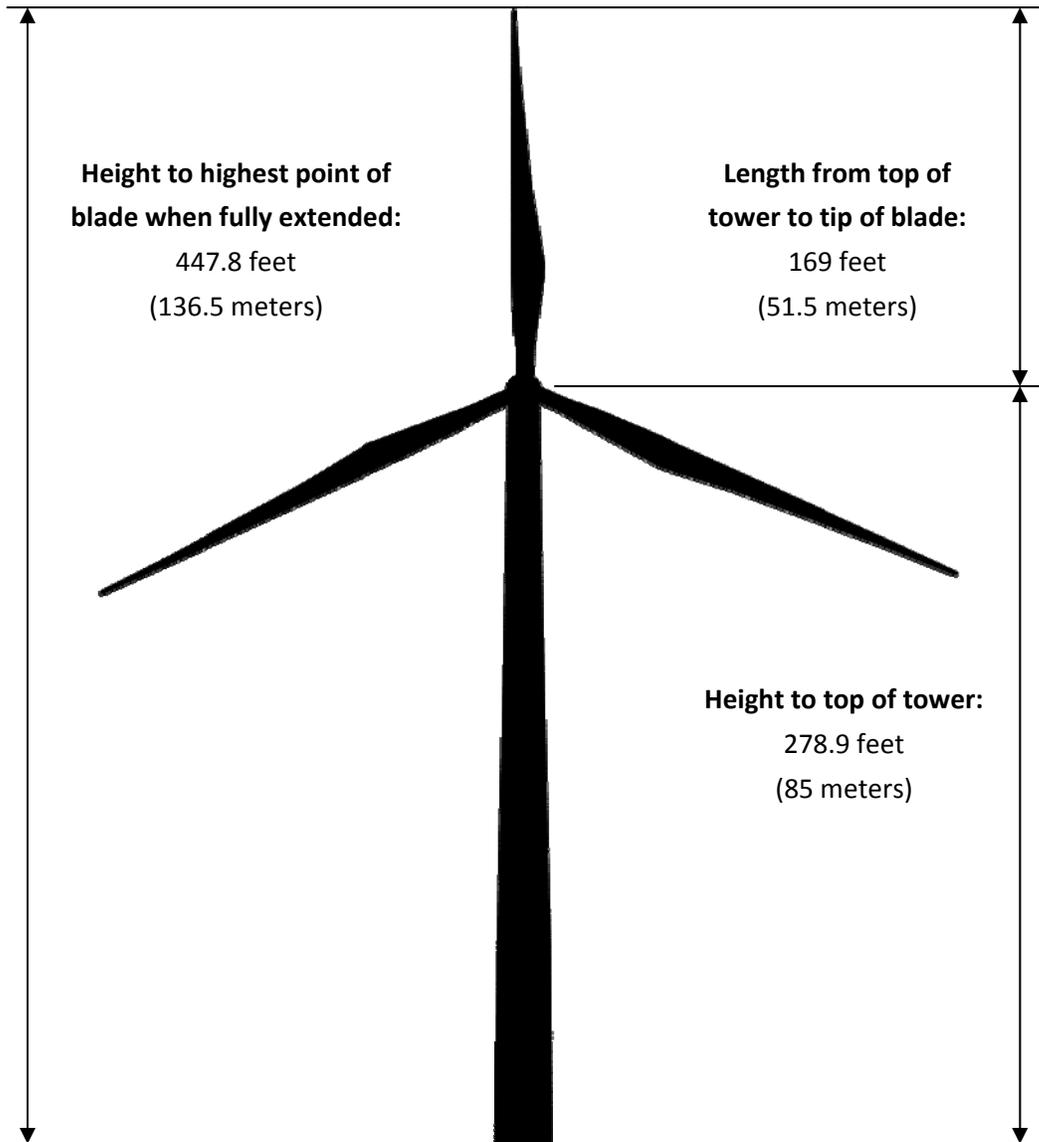


Figure 1-1
Stream Crossing Locations in Canton
 Canton Mountain Wind Project
 Canton and Dixfield, Maine



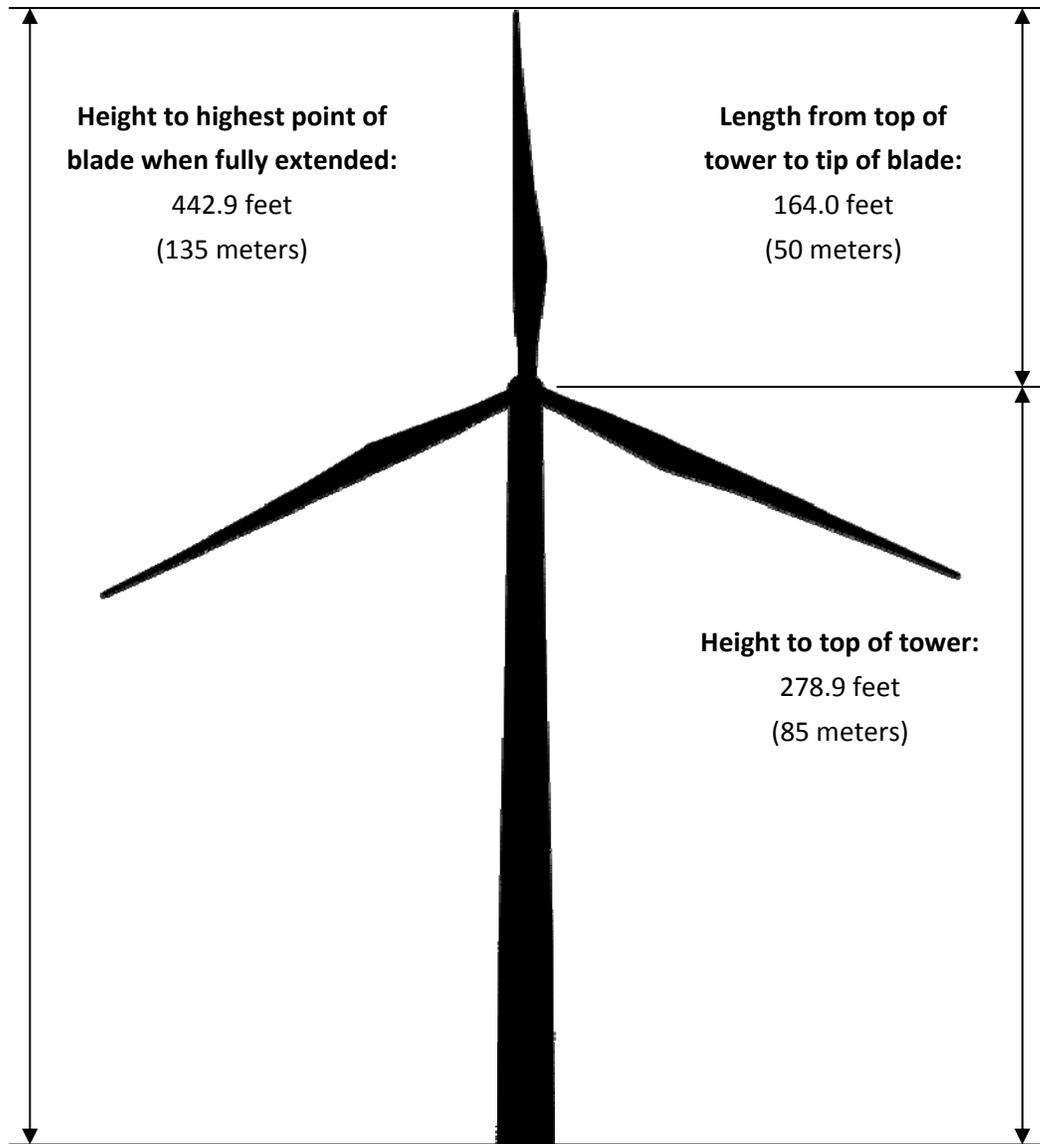
December 2011

Figure 1-2a: Dimensions of a GE 2.75-103 Wind Turbine



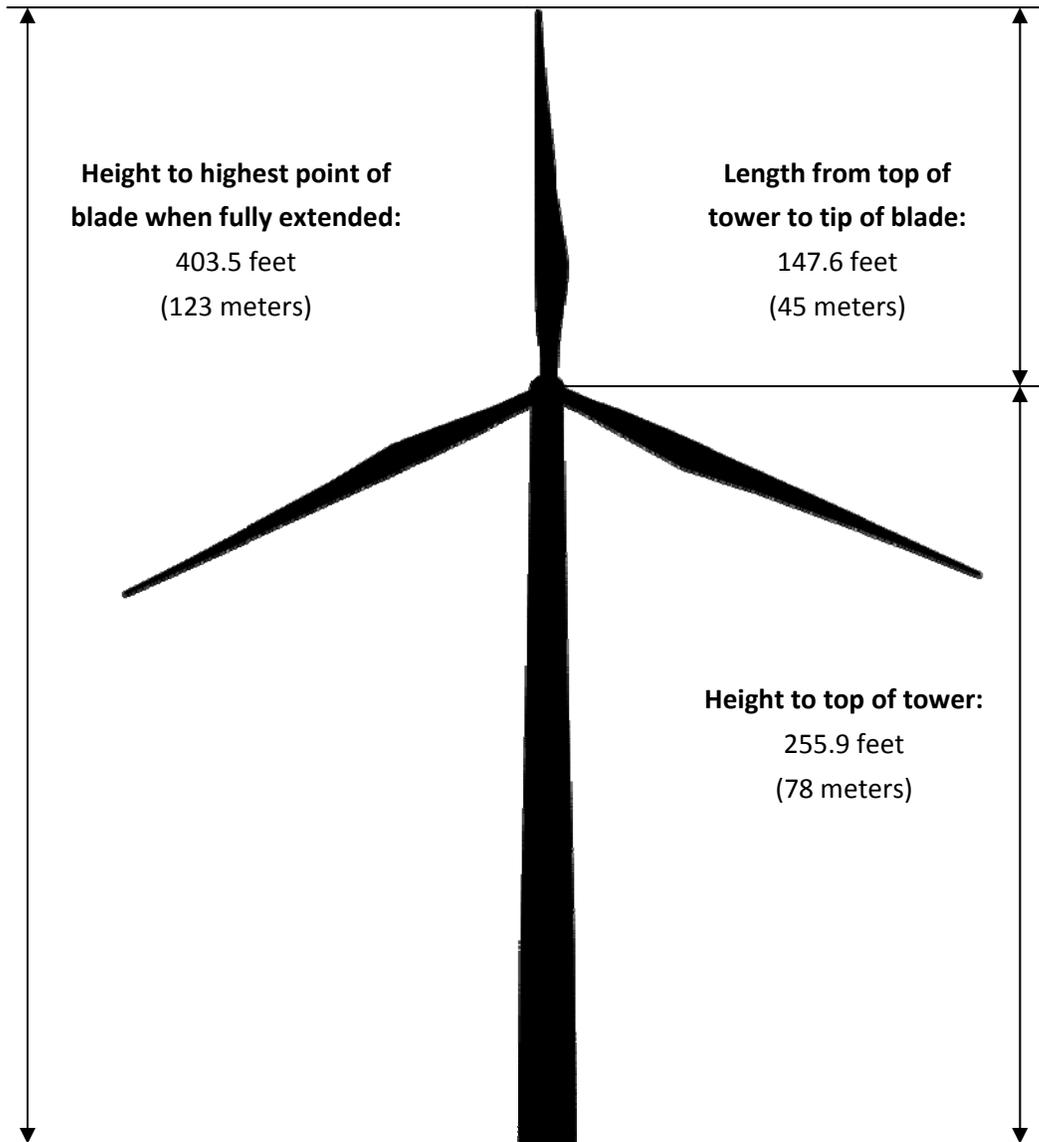
Not to Scale

Figure 1-2b: Dimensions of a GE 2.75-100 Wind Turbine



Not to Scale

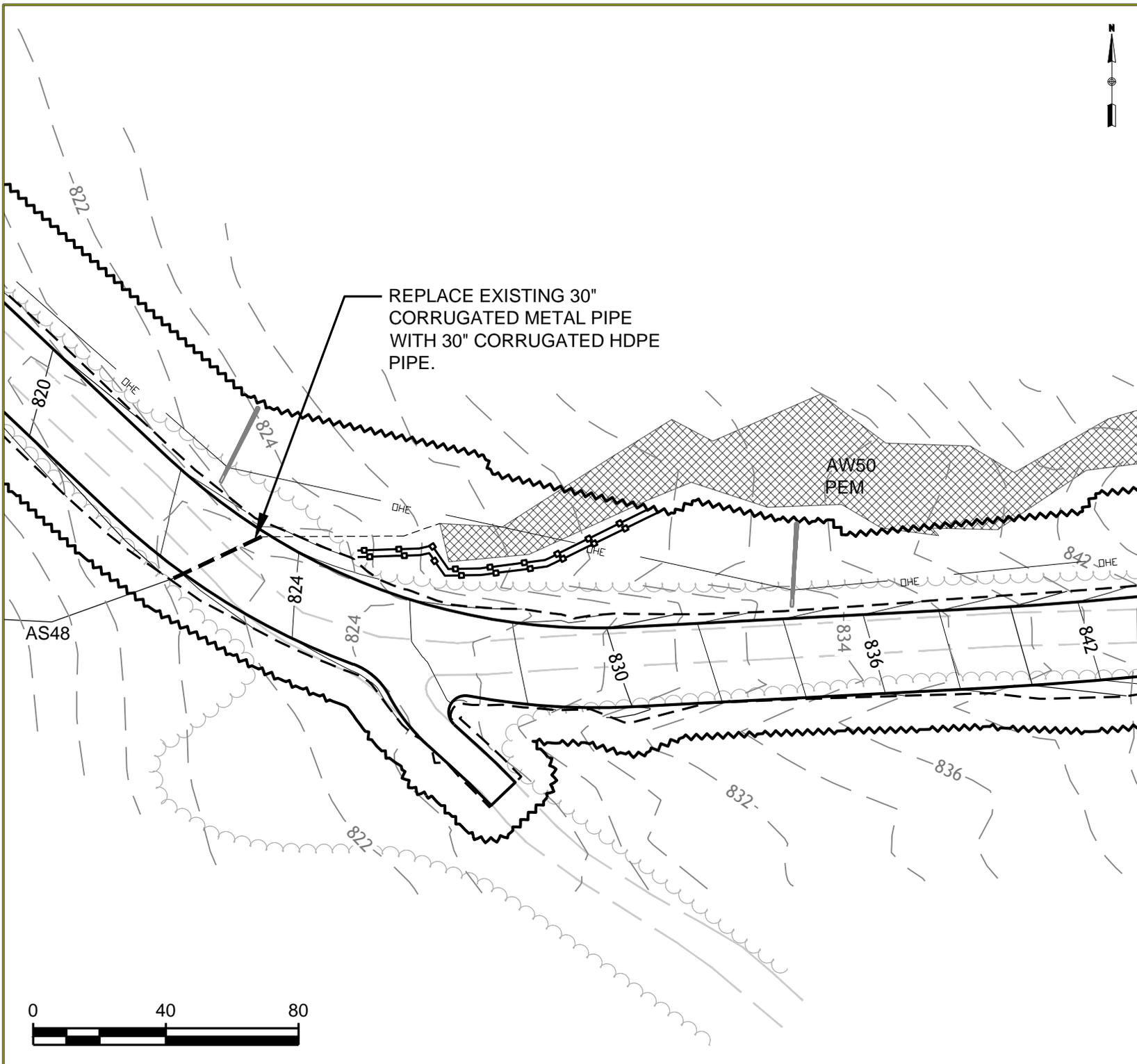
Figure 1-2c: Dimensions of a Gamesa G90 Wind Turbine



Not to Scale



Attachment 2 Resource Crossing Plans



GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
2. ELEVATIONS ARE REFERENCED TO NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
3. EXISTING TOPOGRAPHIC AND PLANNIMETRIC SURVEY INFORMATION WAS THE RESULT OF AERIAL TOPOGRAPHIC PHOTOGRAPHY AND AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC.
4. SOIL MAPPING WAS COMPLETED BY ALBERT FRICK ASSOCIATES, INC.
5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) WAS COMPLETED BY TETRA TECH, INC.
6. PROPERTY LINES ARE THE RESULT OF ACTUAL SURVEY LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
7. REFER TO SHEET 2 FOR LEGEND

1	GENERAL REVISIONS	01/16/12
No.	Revision/Issue	Date

Drawing Title:
**CANTON MOUNTAIN WIND PROJECT
 RESOURCE CROSSING PLANS
 STREAM AS48**

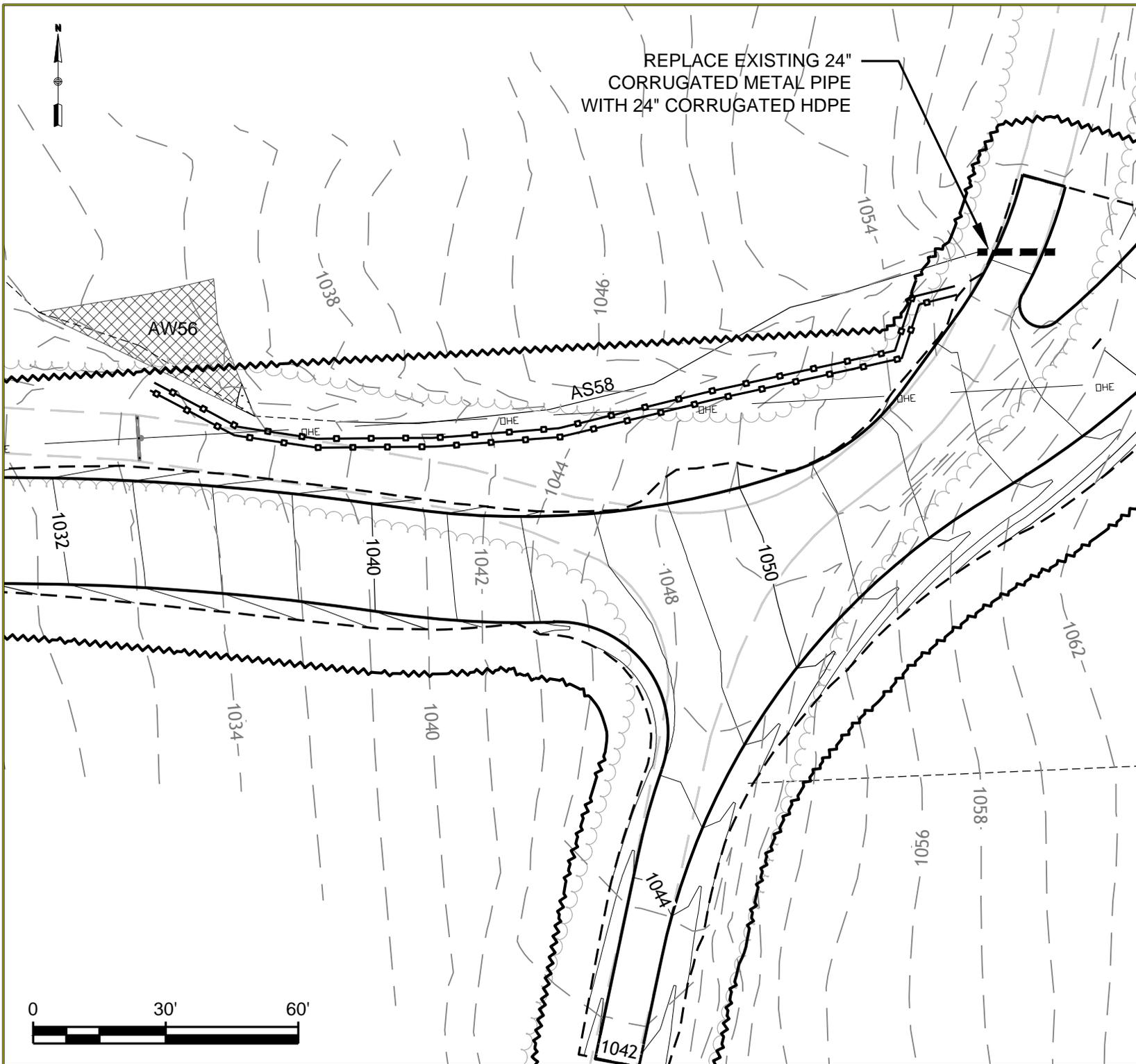
Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
**CANTON MOUNTAIN WIND PROJECT
 CANTON, ME**

Sheet Number:
 18 of 30

Dwg No.: **NRPA-18**





GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
2. ELEVATIONS ARE REFERENCED TO NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
3. EXISTING TOPOGRAPHIC AND PLANNIMETRIC SURVEY INFORMATION WAS THE RESULT OF AERIAL TOPOGRAPHIC PHOTOGRAPHY AND AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC.
4. SOIL MAPPING WAS COMPLETED BY ALBERT FRICK ASSOCIATES, INC.
5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) WAS COMPLETED BY TETRA TECH, INC.
6. PROPERTY LINES ARE THE RESULT OF ACTUAL SURVEY LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
7. REFER TO SHEET 2 FOR LEGEND

1	GENERAL REVISIONS	01/16/12
No.	Revision/Issue	Date

Drawing Title:
**CANTON MOUNTAIN WIND PROJECT
 RESOURCE CROSSING PLANS
 STREAM AS58**

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
**CANTON MOUNTAIN WIND PROJECT
 CANTON, ME**

Sheet Number:
 19 of 30

Dwg No.: **NRPA-19**



INSTALL CULVERT/BRIDGE
STRUCTURE. SEE NRPA-30

GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
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7. REFER TO SHEET 2 FOR LEGEND

1	GENERAL REVISIONS	01/16/12
No.	Revision/Issue	Date

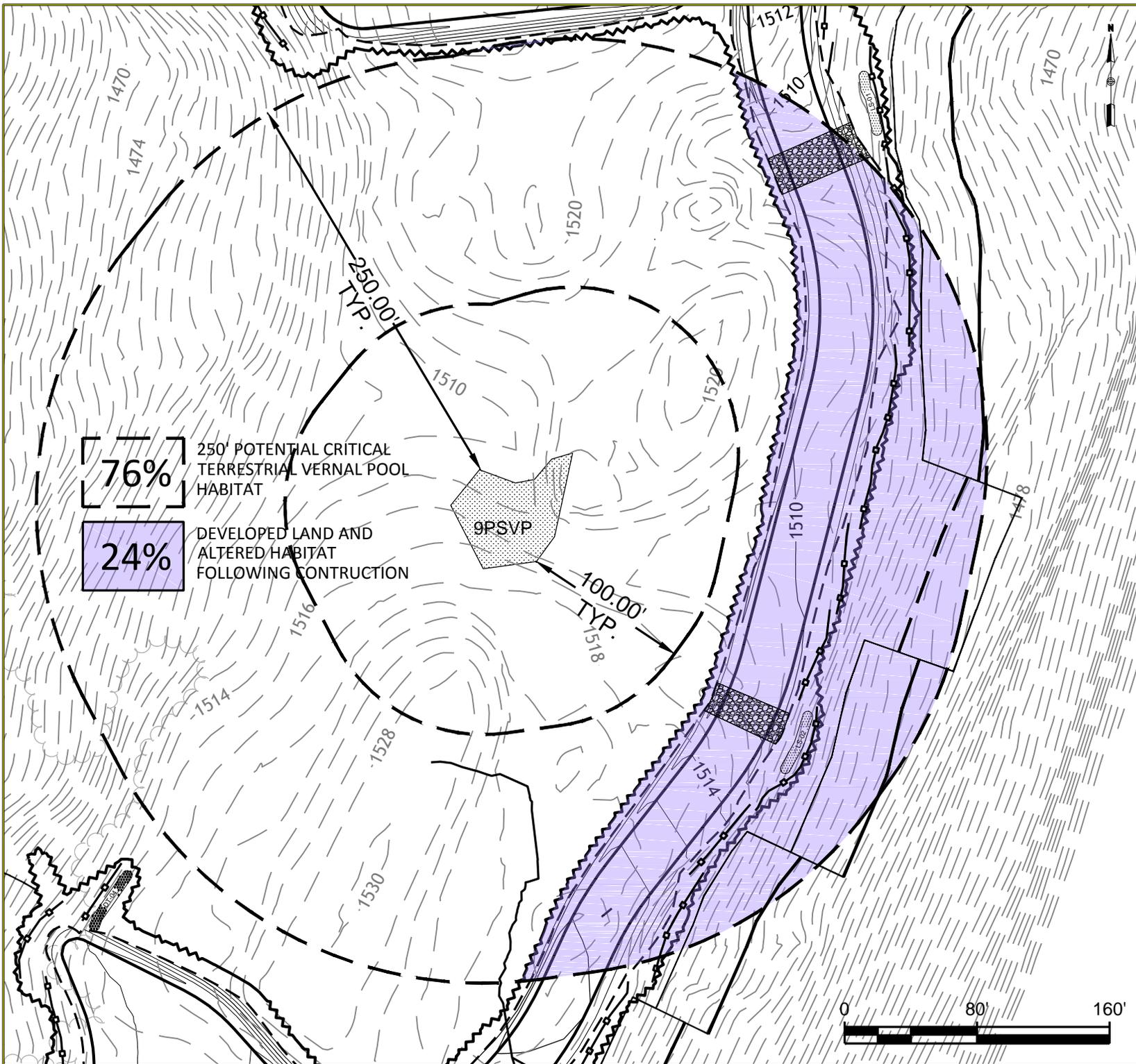
Drawing Title:
**CANTON MOUNTAIN
WIND PROJECT
RESOURCE CROSSING PLANS
STREAM AS49**

Date: 11/21/11	Scale: AS SHOWN
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Project:
**CANTON MOUNTAIN WIND
PROJECT
CANTON, ME**

Sheet Number:
20 of 30

Dwg No.: **NRPA-20**



GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
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7. REFER TO SHEET 2 FOR LEGEND

1	GENERAL REVISIONS	01/16/12
No.	Revision/Issue	Date

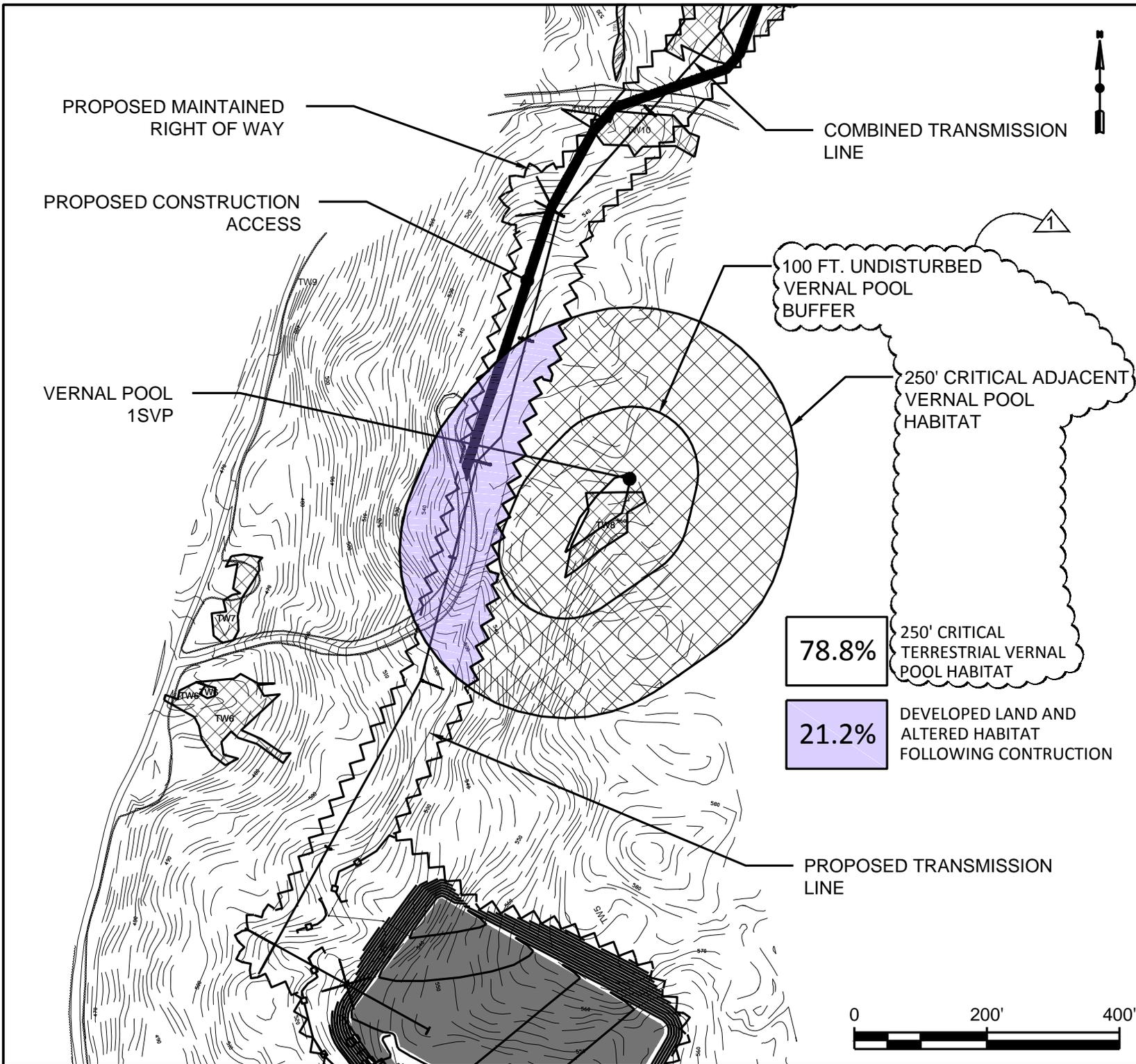
Drawing Title:
**CANTON MOUNTAIN WIND PROJECT
 RESOURCE CROSSING PLANS**
 250' POTENTIAL CRITICAL ADJACENT VERNAL POOL HABITAT

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
**CANTON MOUNTAIN WIND PROJECT
 CANTON, ME**

Sheet Number:
 21 of 30

Dwg No.: **NRPA-21**



GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
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7. REFER TO SHEET 2 FOR LEGEND

1	GENERAL REVISIONS	01/16/12
No.	Revision/Issue	Date

Drawing Title:
**CANTON MOUNTAIN WIND PROJECT
 RESOURCE CROSSING PLANS
 VERNAL POOL
 1SVP**

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
**CANTON MOUNTAIN WIND
 PROJECT
 CANTON, ME**

Sheet Number:
 29 of 30

Dwg No.:
NRPA-29



Attachment 3
Canton Mountain Certificate of Good Standing
Maine Department of Corporations

State of Maine



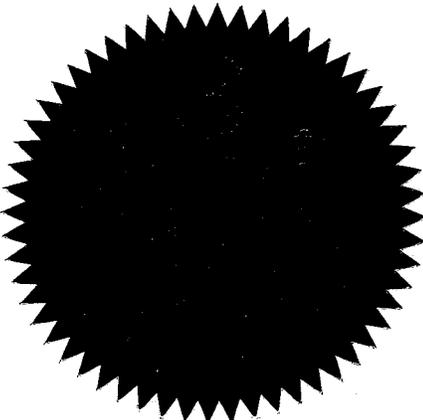
Department of the Secretary of State

I, the Secretary of State of Maine, certify that according to the provisions of the Constitution and Laws of the State of Maine, the Department of the Secretary of State is the legal custodian of the Great Seal of the State of Maine which is hereunto affixed and of the records of qualification of foreign limited liability companies in this State and annual reports filed by the same.

I further certify that CANTON MOUNTAIN WIND, LLC, a MASSACHUSETTS limited liability company, is a duly qualified foreign limited liability company under the laws of the State of Maine and that the application for authority to transact business in this State was filed on November 01, 2011.

I further certify that said foreign limited liability company has filed annual reports due to this Department, and that no action is now pending by or on behalf of the State of Maine to forfeit the authority to transact business in this State and that according to the records in the Department of the Secretary of State, said foreign limited liability company is a legally existing limited liability company in good standing under the laws of the State of Maine at the present time.

In testimony whereof, I have caused the Great Seal of the State of Maine to be hereunto affixed, given under my hand at Augusta, Maine, this second day of November 2011.



A handwritten signature in black ink, reading "Charles E. Summers, Jr.", written over a horizontal line.

Charles E. Summers, Jr.
Secretary of State



Attachment 4

Stream and Significant Vernal Pool Photo Documentation

PHOTOGRAPHIC RECORD

Company: Patriot Renewables, LLC
Project: Canton Mountain Wind Project – Permit-by-Rule Photographic Documentation



Photo No.: 1
Plan ID: AS9
Waterbody: CASBK22
Date: August 5, 2010
Photographer: Rodney Kelshaw

Comments: Intermittent stream that has an average width of 1.5 feet and an average bank width of 3 feet. Stream flows through wetland CAWBK12 in a westerly direction. Photo is looking west.



Photo No.: 2
Plan ID: AS48
Waterbody: CASBK41
Date: August 9, 2010
Photographer: Rodney Kelshaw

Comments: Westerly flowing intermittent stream that has an average width of 3 feet with an average bank width of 4 feet. Photo was taken looking east.



Photo No.: 3
Plan ID: AS49
Waterbody: CASBK42
Date: August 9, 2010
Photographer: Rodney Kelshaw

Comments: Westerly flowing intermittent stream with an average width of 3 feet and an average bank width of 5 feet. Photo was taken looking west.

PHOTOGRAPHIC RECORD

Company: Patriot Renewables, LLC
Project: Canton Mountain Wind Project – Permit-by-Rule Photographic Documentation



Photo No.: 4
Plan ID: AS58
Waterbody: CRSBW23
Date: August 11, 2010
Photographer: Heather Storlazzi Ward

Comments: A perennial stream that was an average width of 2 feet and an average bank width of 3 feet. Photo is looking upstream.



Photo No.: 5
Plan ID: 9PSVP (potential vernal pool on ridgeline)
Vernal Pool: CR_11SVP_BA421
CR_11SVP_BA506
Date: April 21, 2010
Photographer: Rodney Kelshaw
Comments: Facing south.

Maine Department of Inland Fisheries and Wildlife confirmed significant vernal pool east of proposed transmission line (filed with Saddleback Ridge Wind Project)



Photo No.: 1
Vernal Pool: RT_9SVP_FA042110
Date: April 21, 2010
Photographer: J. Logan
Comments:
9SVP From South



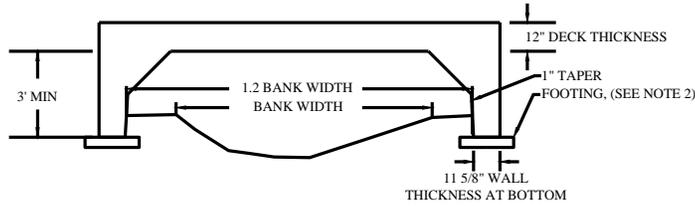
Attachment 5 Stream Crossing Engineering Details

GENERAL NOTES:

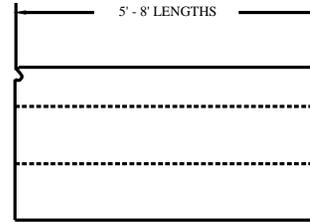
1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
2. ELEVATIONS ARE REFERENCED TO NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
3. EXISTING TOPOGRAPHIC AND PLANNIMETRIC SURVEY INFORMATION WAS THE RESULT OF AERIAL TOPOGRAPHIC PHOTOGRAPHY AND AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC.
4. SOIL MAPPING WAS COMPLETED BY ALBERT FRICK ASSOCIATES, INC.
5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) WAS COMPLETED BY TETRA TECH, INC.
6. PROPERTY LINES ARE THE RESULT OF ACTUAL SURVEY LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
7. REFER TO SHEET 2 FOR LEGEND

STREAM CROSSINGS DETAIL

NOT TO SCALE



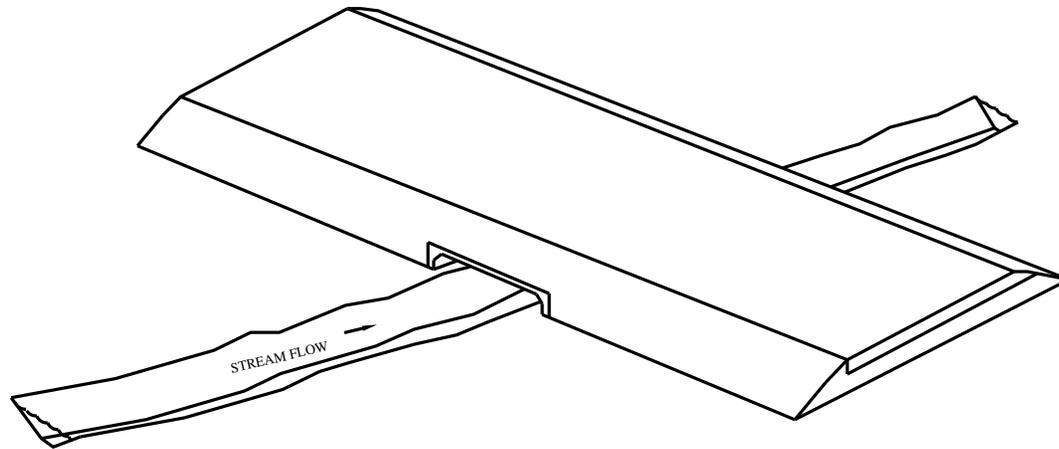
LONGITUDINAL SECTION VIEW
NOT TO SCALE



TRANSVERSE SECTION VIEW
NOT TO SCALE

NOTES:

1. SPECIAL CULVERT SECTION PRECAST BY OLDCASTLE PRECAST.
2. SPECIAL CULVERT SECTION RESTS ON SMALL FOOTINGS, WHERE THE VENDOR DEEMS NEEDED
3. USE SPECIAL CULVERT SECTION FOR STREAMS OF SPECIAL INTEREST.
4. HEIGHT AND TOTAL SPAN WILL VARY AT BRIDGE CROSSINGS.
5. INTERIOR OF CULVERT TO BE CLEAR OF RIPRAP BACK FILL AND DEBRIS



ISOMETRIC VIEW
NOT TO SCALE

No.	GENERAL REVISIONS	Date
1	GENERAL REVISIONS	01/16/12

Drawing Title:

CANTON MOUNTAIN
WIND PROJECT
RESOURCE CROSSING PLANS
CULVERT/BRIDGE
DETAIL

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
CANTON MOUNTAIN WIND
PROJECT
CANTON, ME

Sheet Number:
30 of 30

Dwg No.: NRPA-30